

## in the news

### INSIDE

A new high school summer program, to be run primarily by MIT students, faculty, and staff, is being organized. The program, called "Exploration," will be similar to MIT's High School Studies Program, and will give students exposure to university-related and pre-professional fields.

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More than 500 oarsmen/women test the Charles River waters in Saturday's annual Class Day regatta; winners include Delta Upsilon (senior eights), Baker House (intermediate eights), and Zeta Beta Tau (junior eights).

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### OUTSIDE

Astrophysics experiments shown during the summer at the US Bicentennial Exposition on Science and Technology at the Kennedy Space Center in Florida will be on exhibit in the lobby of Kresge Auditorium tomorrow through Friday from 9am to 4pm. The exhibit features experiments built by MIT for the Mariner 10, OSO-7 and SAS-3 interplanetary and satellite programs and three panels depicting the design, launch and use of the SAS-3 orbiting x-ray observatory launched in May 1975 by the National Aeronautics and Space Administration.

### UPDATE

Only four days remain to donate to the Fall 1976 MIT Red Cross Blood Drive, held in the Sala de Puerto Rico. Appointment forms are still being accepted, and walk-in donors are usually welcome. As of Monday afternoon, 636 pints had been collected, slightly ahead of last spring's drive, but well behind the total amassed in last fall's effort.

Swine Flu vaccinations continue this week in Room 10-105. Monovalent vaccine is available for the general MIT community today through Friday from 8am to 5pm. For further information on risks and benefits of the vaccine and specific times it is being offered, contact the MIT Medical Department.

## Appeals Court reverses Superior Court decision

# EC will vote in Toomey-Graham contest

By Mark James

City Councilor Saundra Graham's successful bid to the Massachusetts Appeals Court will permit East Campus residents to cast ballots today in her State Representative contest with incumbent John J. Toomey.

The ruling reaffirms a Cambridge Election Commission decision placing East Campus in the Fifth Precinct of the Second Ward. This precinct lies in the Fourth District, now represented in the Legislature by Toomey.

The ruling also places the Harvard dormitory Leverett Towers in the Fourth District. Over 130 voters are involved; about 95 live in East Campus.

Toomey would not comment on the decision except to say that "I don't fight the courts."

Graham was "very happy" with the decision. She "thinks it will help" her chances in the election, but said that "I didn't base my campaign on those two buildings [East Campus and Leverett]."

The Election Commission decided on Oct. 21 that East Campus had been listed incorrectly on the voter registration lists since 1949. That listing put East Campus in the Third Precinct of the Second Ward, which is part of the First District. Michael J. Lombardi is running unopposed in that district.

The maps used by the Election Commission show the precinct line running down Ames Street, which would put East Campus in the Fourth District.

The city ordinance that covers precinct assignments has been lost, according to Election Commissioner George Gorman.

The Commission decided that the map was correct. Massachusetts statutes say that precinct lines must run down the middle of public streets or natural boundaries such as rivers, according to Gorman.

Other statutes, however, prohibit the changing of precinct lines after July of the election

year, according to City Solicitor Russel Higley. Toomey claimed that this was true of the Commission's decision, but Gorman and Graham argued that the Commission was merely correcting an error and not redrawing precinct lines.

Toomey challenged the Commission's decision in Superior Court and received a restraining order preventing the Commission's decision from taking effect. Graham and the Commission appealed the decision, and the Court of Appeals ruled against the Superior Court.

A single justice of the Massachusetts Supreme Judicial Court refused to hear Toomey's appeal of this ruling, thus exhausting all legal remedies and leaving the Commission's decision in force.

Gorman said that Toomey has requested that the ballots from East Campus be filed under challenge, meaning that the voter's eligibility could be disputed if the election is decided in



Saundra Graham's victory in the courts may be an important factor in her attempt to defeat incumbent State Representative John J. Toomey.

favor of Graham by a margin smaller than the number of voters involved.

He said that there might be "some loss of [voter's] confidentiality" due to the need to separate East Campus ballots from others if the election result is disputed, but that ballots could probably be separated by address instead of the voter's name.

## Kayton's 'little tugger' grabs prize in 2.70

By Donna Bielinski

Little gadgets wrestled one another in a sandbox as scores of screaming mechanical engineering students cheered them on in the annual 2.70 design contest.

The eventual winner was Susan Kayton '78, whose "tugger" — tug of war machine — defeated that of Bogdan Dawidowicz '79 in the seventh round by a margin of over two inches.

In the contest, two opposing "tuggers" were connected to each other by a four-foot cord, with a marker flag in the middle. The object was to pull the opposing machine until the flag crossed the center line.

Kayton's device, which she described as "the simplest one there" consisted of two basic parts — an anchor and a winch.

The anchor, which was made from venetian blind slats, dug into the sand to stabilize the device. The winch, a simple spool constructed of circular pieces of masonite, provided the mechanism needed to pull on the

opposing "tugger."

Each contestant was required to design and build their "tugger" from materials supplied in a kit containing everything needed except adhesives and nonfunctional decorations. The kit included a masonite sheet, a wood lathe, strings and cords, paper cloth, venetian blind slats and other household odds and ends.

The machines, which were powered by rubber bands, could not exceed twelve inches in length, fifteen inches in height, or six inches in width. The maximum allowable weight was one kilogram.

Associate Professor of Mechanical Engineering Woodie Flowers, head of the 2.70 staff, said that the students had worked very closely with their instructors in designing their "tuggers," and that grades on the project would reflect the effort put into it, regardless of the position they gained in competition. "Trying and failing is OK, the only thing we will not reward is not trying," Flowers asserted.



Sue Kayton '78 reacts to winning this year's 2.70 design contest



As his pallbearers watched, Count UMOC gave blood — instead of taking it — Friday afternoon at the TCA Blood Drive. The Count may give up more than blood, however — the Foon now leads the Ugliest Man On Campus contest with \$144.03 collected to the Count's \$20.49. Geoff Baskir is running second with \$130.21, and the Hump third with \$111.51. Leo, Maxwell's Deamon, Sadie

Bilgewater, the Spirit of Transparent Horizons, Gorilla, Twit, the Epsilon Theta Pledge Class, and last year's winner the Count round out the field of candidates who have surpassed the \$20 mark in contributions so far. A total of \$847.19 has been collected as of Monday night, all of which will go to the American Cancer Society



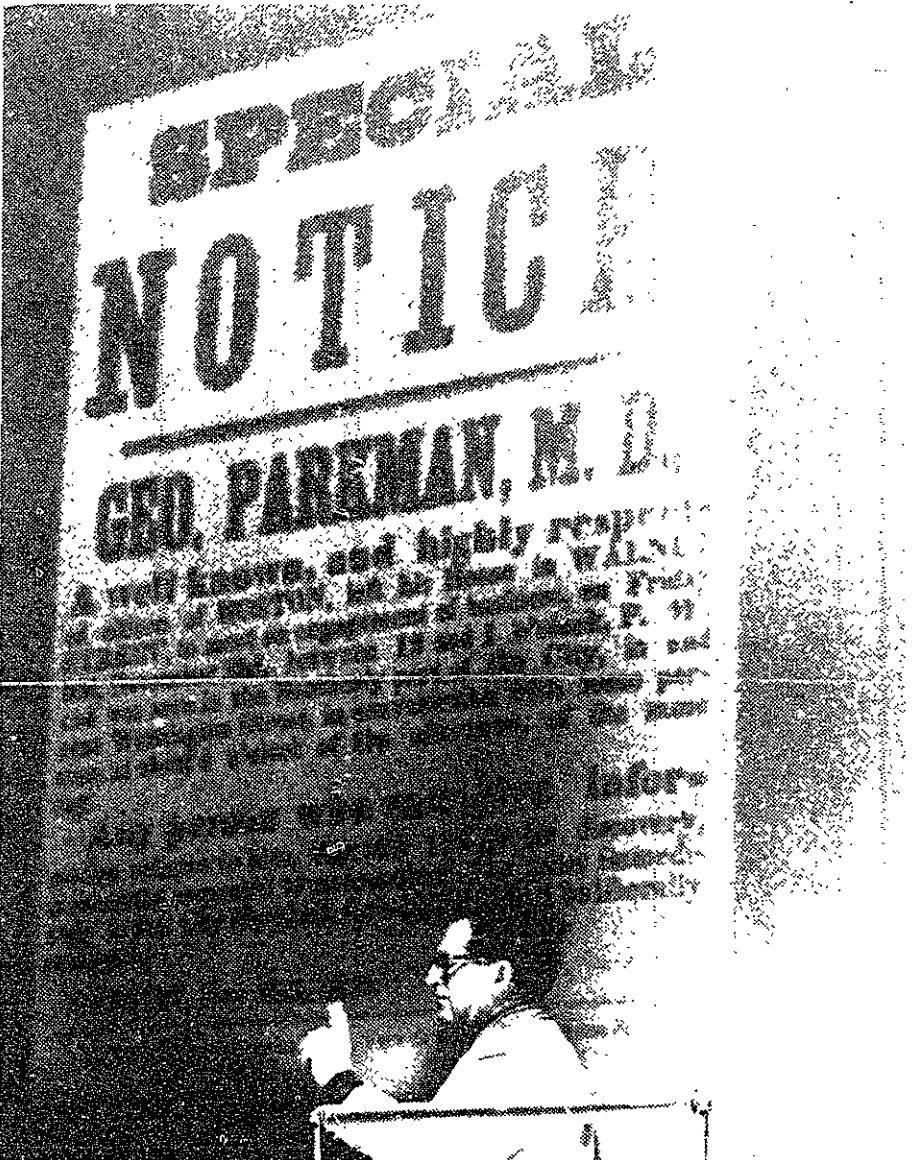
# Parkman murder case: irregularities cited

**By Thomas J. Spisak**  
 "The case hinges on a recognition," Saul Benison, Professor of History at the University of Cincinnati, said opening his lecture on "The Parkman Murder: A Study in Criminal Medicine" here Friday afternoon.  
 Benison, who comes to MIT every year to tell stories for Halloween, remarked that the Parkman case was a mirror of a city becoming urban. "This was an affair of the intelligentsia and the well to do," he stated. "Ordinary crime did not touch Harvard professors or merchants."  
 On the Thursday before Thanksgiving, 1849, Dr. Richard

Parkman, a "rather ugly" and prominent Boston realtor, disappeared after leaving his Pemberton Square home around 2pm on business.  
 The newly formed Boston police force was notified immediately; their first bulletins mentioned mental collapse as well as foul play as possible causes of the disappearance.  
 Police investigations covered eastern Massachusetts although suspicion soon centered on Dr. John W. Webster, a professor of chemistry at Harvard college and the Harvard Medical School and one of Parkman's debtors, through the accusations of Josiah

Littlefield, a janitor at the Medical School and known "resurrectionist", or grave robber.  
 Partly burnt and dissected parts of a human body were found beneath Webster's laboratory; a broken set of false teeth was discovered in his furnace. On the Tuesday after Thanksgiving Webster was arrested by the Boston police and charged with Parkman's murder.  
 Parkman's body was identified by his dentist from the denture shards found in Webster's furnace and the appearance of the limbs found in his basement.  
 Although Parkman may have been seen on Washington Street at 5pm the day he disappeared and on Cape Cod later, the existence of a 'corpus delicti' was not proven under the laws of Massachusetts at the time, Webster was convicted and sentenced to hang. Appeals to the Commonwealth's Supreme Judicial Court and the Governor were unsuccessful and Webster was executed.

community shudders at the law of malicious homicide as expounded by the Chief Justice."  
 Phillips also argued that Webster's prominence and the public clamor for his conviction had worked against his being tried fairly. "Professor Webster had occupied a conspicuous position in society and it was very easy to raise a cry against the Court if any unusual leniency should be shown him. This evidently forced the Court into the opposite extreme," Phillips wrote.  
 "In the next place, the excitement had become so intense that a proper regard for the peace of the community required that the whole procedure should be closed at the earliest practicable period," he added. "The Court evidently thought it necessary to secure an unanimous verdict and such a verdict as would correspond with public opinion."



Professor of History at the University of Cincinnati Saul Benison shows an MIT audience a slide showing one of the posters put up in Boston in 1849 to locate Dr. Parkman

## Case a watershed

The Parkman case marks a watershed in American law, setting the precedent that *corpus delicti*, or the existence of a body, could be proven by circumstantial rather than substantive evidence. Before this case, a corpse was needed to prove that a murder had been committed.  
 The case also established the principle that there is a murder by implied malice in cases where there is not an accident or suicide, even if express malice is not proven.  
 Chief Justice Lemuel Shaw's charge to the jury in the Parkman case was less than universally praised in the legal press of the day. Stephen H. Phillips, the finest legal mind of the time, wrote in the Massachusetts Monthly Law Reporter that Shaw's charge shifted the burden of proof from the state to the defense.  
 Phillips charged, "The whole

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## Wiggen and Boretz excell in computer concert

By Peter Coffee

Sophistication and triviality got equal time at Kresge Auditorium in Friday's concert of electronic music, presented in conjunction with the World Music Days Festival of the International Society for Contemporary Music as part of MIT's First International Conference on Computer Music.

The opening and closing works by Knut Wiggen and Benjamin Boretz, respectively, were the best of the evening. They made first and final impressions which neatly overcame the disappointments of the four pieces in between, and set a standard of comparison far higher than that left behind by the similar program last March.

Wiggen's work is titled "Resa," the Swedish word for "travel." His program note described the piece as intended to give "a feeling of meeting and passing (musical) objects." The illusion is perfect. Wiggen makes full use of four channels, and his initial affinity for Doppler effects is soon blended with a running beat that makes for a well-balanced set of styles.

"Resa" is truly outstanding for its confident excursions to the limits of the electronics' particular capabilities. Not content to simulate traditional instruments, nor to show off in the Gee-Ma-isn't-this-random manner of his less advanced contemporaries, Wiggen has produced a construction of complex harmonics and daringly extended dynamics that represents the true state of the art. An absolute mastery of the elements of sound is evident in every line of Wiggen's composition.

Most of the foregoing applies to Boretz' "Group Variations II." The "II" in the title denotes the work's derivation from Boretz' original piece for chamber orchestra, first performed in 1967. Boretz is too modest in describing the computer-based version's powerful devices as "conceits," for the evolution has eliminated any indication of restrictive bias without insulting the good taste of the listener.

Boretz challenges Wiggen in the development of advanced harmonics. His piece is a powerful, clean, virtuosic display. Boretz foregoes the imagery central to "Resa" to produce a composition not pretending to be anything but music. "Group Variations II" doesn't suffer for the sacrifice.

The third and fourth entries on the program, Pierre Barbaud's "Ars Recte Computandi" and Vladan Radovanovic's "Electra," were apparently stolen before the concert. They will be included in the concert tape, scheduled for international distribution.

Their replacements were Tracy Lind Petersen's "Everything and Nothing" and Jonathan Harvey's "Time Points." The latter is as obsolete as its 1970 date implies. It is an unpleasant sequence of harsh, unattractive tones showing little evidence of any development at a level higher than one would today expect of a class in basic composition.

Petersen's work is based on his own poem of the same title, and is immediately

suggestive of Charles Dodge's early exercises in electronic modifications of the spoken word. Petersen's variations are a good deal more advanced, and in parts — notably the recitations in Italian by computer-synthesized voices arranged in the manner of organ chords — are beautiful. The effect is carried, unfortunately, to extremes; at points, the audience was simply laughing, and the composer didn't look pleased when he stood to receive their applause.

One of the most powerful combinations in contemporary music is that of the live soloist and the computer-generated tape. Barry Vercoe's "Synapse" for viola and computer, which premiered at the electronic concert last March, is a bench-

mark of this genre. The two remaining entries in last Friday's program, Enrique Raxach's "Chimaera" and André Laporte's "Harry's Wonderland," both combined tape with the bass clarinet of soloist Harry Sparnaay in compositions which fell far short of that standard.

Sparnaay gave two first-class performances. Both Raxach and Laporte are clearly talented composers with the courage to explore the envelope of an instrument's performance. Raxach, however, uses the electronics only to generate what his program notes describe as "a fairly static sound" intended to give the clarinet line "an apparent arbitrariness and independence." Laporte first simulates a music box, and in "Wonderland's" third

movement calls forth imaginative but unimpressive sonic exclamations which create nothing but confusion.

The complaint is this: neither Raxach nor Laporte does anything with his electronics that could not be done equally well with a collection of sound-effect records. Their works are trivial exercises as far as the electronics were concerned, and simply not appropriate to a concert which purports to illustrate the state of the art.

Let it be emphasized that the composers show great ingenuity in the construction of the bass clarinet's line. For this concert, however, it would perhaps have made more sense to program works in which the electronics' contribution shows equal imagination.

## Kiss me Kate glorious

By Kathy Hardis

The People's Theatre, located at 1253 Cambridge St. in Inman Square, is currently presenting Cole Porter's musical *Kiss Me Kate*. The production will run until November 21 with performances on Friday, Saturday, and Sunday night at 8:00.

A high quality theatrical production must be well written, convincingly acted, and technically presented in such a way to enhance the actors' surroundings. The People's Theatre's production of *Kiss Me Kate* combines the talents of several actors in an extremely well written play. The sets, the lighting, and many of the costumes used in this production are, however, not quite as extravagant as one would expect to find in a full scale musical comedy.

*Kiss Me Kate* is one of the great successes in the history of American musical theatre. Its original production in 1948 ran for over one thousand performances and received the Antoinette Perry award for the best musical of the season.

The basis for its plot is Shakespeare's comedy about Katherine the shrew. The story is set in the United States and utilizes the play-within-a-play technique by

depicting a theatrical company's performance of *The Taming of the Shrew*. The relationships between the principal actors in the company closely parallel those of the characters they portray, and the resulting story is a very funny combination of Shakespeare and musical comedy.

The score of *Kiss Me Kate* is perhaps Cole Porter's best in terms of both music and lyrics. The songs involve a variety of styles, ranging from the romantic, sentimental "So In Love" to the lively "Always True To You In My Fashion." Porter's wittiest lyrics are found in "Brush Up Your Shakespeare" in which two comic gangsters discover that "to 'wow' the girls and get them ravin', all you have to do is quote the Bard on Avon!"

The four principals of the production are Lilli Vanessi/Kate (played by Alexandra Suchocki), her former husband Fred Graham/Petruchio (Peter Kellogg), Bill Calhoun/Lucentio (Martin Johnson), and the lovely Lois Lane/Bianca (Susan Morgello '78).

Alexandra Suchocki gives an exceptionally vibrant performance as the shrew; her acting and singing voice are both excel-

lent. Peter Kellogg shows talent both as a comic and as a Shakespearean actor although his singing is occasionally off key. As Petruchio he sings a very funny rendition of "Where Is The Life That Late I Led," a reminiscence of his former happy existence as a bachelor.

Martin Johnson and Susan Morgello give fine performances, demonstrating their ability as both actors and singers. They also show strong potential as dancers, but the choreography seems to have left them at a loss during their solo dance numbers. Susan Morgello's singing is exceptionally good in her "Always True To You . . ." and she maintains life and energy throughout the performance.

Especially deserving of praise are the two comic gangsters portrayed by Marla Burr and Paul Hart. They play two stereotypical Chicago mobsters who come to the theatre to collect a \$10,000 gambling debt and end up appearing as actors in *The Taming of the Shrew*.

The stage of the People's Theatre is very small and is surrounded on three sides by the audience. The director has successfully blocked the production so that the actors play equally well to each side of the stage. Only when the entire chorus appears is the audience's view limited.

The quality of the costumes varies among the different characters. The leads' costumes are attractive and appropriate to their roles while the chorus's costumes seemed poorly designed and constructed. The use of scenery on such a small stage is restricted, and the sets of this production are almost nonexistent. The technical aspects of the production are generally fair, but this is an obvious consequence of any modest budget.

The strongest points of this theatrical presentation are the talents of the principals and the excellent plot and music of *Kiss Me Kate*. It is unfortunate that a production with such potential could not be staged in a more lavish theatre with fancier sets, better costumes, and a full orchestra. But the strength of the musical itself combines with the actors' abilities to overcome their surroundings. It is a fun, entertaining musical and well worth seeing.



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## Of referenda and races: Election Day ramblings

By Glenn Brownstein

All bets are off. After spending the better part of an hour trying to figure out who will win today's Presidential election, I realized that there are simply too many unknowns and too many down-to-the-wire races to try to discern who the next President will be.

One scenario made South Dakota the key state nationwide. Under that set of computations, a Carter victory in that always-crucial state would give him a 272-266 edge, while a Ford win would make it 270-268 the other way. This, of course, involves about six assumptions about other state races that I'd prefer not to have to puzzle out. So I give up. I withdraw all earlier guesses, and wait anxiously for a long fun-filled night in front of the tube.

Thinking about it that way, there's absolutely no reason not to vote today, unless you really don't care who our next President is. Or, if you're a Massachusetts voter, what sorts of laws you'll have to live with for years to come. State officials expect a very high turnout today, and it's not at all due to the Presidential race. Most Congressional battles and the Ted Kennedy Senatorial race do not figure to attract that much attention either. No, the passions that move Bay Staters involve equal rights, taxes, power, guns, bottles, and blue laws.

The nine referenda, seven of which will have a direct bearing on state law, have aroused an outpouring of lobbying not usually associated with ballot questions. It appears that everyone had a special interest that ties in with one or the other referenda. MIT's special interest is the question of charging a uniform rate for electricity to all consumers (Question 7).

According to Chancellor Paul Gray, flat rates will cost the Institute \$1.5 million next year, and at least some of that burden will be passed on to the students. The *Real Paper* reported Sunday, however, that Gray left a very important point out of his argument. To quote their story, "both Governor Dukakis and Senate President Harrington have said that they will not rule out the possibility, if the referendum question passes, of amending flat rated to exempt non-profit institutions like MIT. . . . the Department of Public Utilities (may be able to) rule by administrative fiat to leave educational and other non-profit institutions out of flat rate provisions."

Hmmmm. At any rate, the time for debate is over, and it's time to act. One nice aspect of the Federal Election Spending Law is that we haven't been overburdened with political commercials this year. There's the usual mass media efforts for the major candidates, with an occasional MacBride or Hall or Camejo spot in between. But there aren't any bumper stickers, or songs, or giant posters proclaiming the virtues of donkeys or elephants this year. The clever candidate, however, learns how to get his/her point across regardless of restrictions.

About fifteen years ago, two candidates for a closely-contested Congressional seat in a Southern state arranged for Election Eve television time on a local TV station, one after the other between the hours of 10pm and midnight. The first candidate used 55 minutes of his hour for various announcements, then played a tape of the "Star-Spangled Banner" to finish up his program. Needless to say, due to the late hour and the general weariness of the voting public by this time, almost nobody watched the second candidate's presentation, and the first guy won by a few hundred votes. This is known as the effective usage of television to promote one's candidacy.

I sincerely hope that the computers are as lost as we are in terms of figuring out who wins tonight. Better yet, let's have CBS, say, give Carter the election, NBC choose Ford, and wind up with a 269-269 tie. Could happen, you know. Who (or what) will win this evening? Damned if I know. I'm just going to cast my ballot this afternoon and sit back tonight and enjoy the fun — and I urge all of you to do the same.

# the real world

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## Campaign '76: nothing catchy

By William Lasser

The Presidential horserace has nearly reached the finish line, and tonight the stewards of American politics will decipher the photo finish, declare the results official,

and post the parimutuel payoffs. The Ford horse, which broke badly from the starting gate, has gained amazingly on its opponent. The Carter horse, off to a big lead, has stumbled, tripped and limped his way to the home stretch.

It is not yet time to give up on

dent Ford '76" and "Carter-Mondale" compare with "Win with Willkie," "I like Ike," or even Nixon's "Now more than ever?"

Roosevelt's "the only thing we have to fear is fear itself" were both part of inauguration addresses. The famous picture of Harry Truman holding up a newspaper headline which said "Dewey Defeats Truman" — when the election actually went the other way — is unforgettable. And there is nothing to compare to the great retort of a reporter who, told when he called upon 1916 loser Charles Evans Hughes on the morning after the election that "the President is sleeping," said "Well, when he wakes up, tell him he isn't President any more."

(Please turn to page 5)

## political spectrum

and post the parimutuel payoffs.

If 1976 is remembered for its politics, it will be recalled as a year of political gaffes, misstatements and blunders. There has been no shining rhetoric, no humorous stories, no moments of real triumph or tragedy.

Both national conventions were anticlimactic, unlike the Democratic convention of 1924 which required 103 ballots, or the 1968 Democratic convention, which was racked by the student riots and a party divided by the Vietnam War. This year, Jimmy Carter had a cakewalk, while Gerald Ford had it won after Tuesday night.

We have had no major scandals during the campaign. In 1952, Senator Richard Nixon was nearly forced off the ballot as Eisenhower's vice-presidential nominee when reports of a secret fund were revealed by the *New York Post*. Nixon gave his famous "Checkers speech" — and saved his political career.

There were no speeches made this year that will be remembered — none like Franklin Roosevelt's poignant "and now they are even attacking poor Fala" complaint of 1944. We have heard nothing about "a chicken in every pot, a car in every garage," nor have we been told that "prosperity is around the corner."

If either candidate this year has an official campaign song, no one has heard it. In 1968, we could all listen to "Nixon's the One" ("we believe in Nixon, N-I-X-O-N . . .") and Humphrey's "Happy days are here again."

Due to the federal funding this year — and hence the limit on campaign spending — we are deprived this year of the millions of posters, bumper stickers and buttons which used to dot the American landscape every four years. This year's campaign slogans have none of the charm of those of the past. How can "Presi-

1976. Some of the most memorable stories and sayings in American history have come on election day, or even at the Inauguration two months later. Kennedy's "Ask not what your country can do for you . . ." and

## feedback

## Ford-Carter: no difference

To the Editor:

This is in response to William Lasser's editorial in *The Tech* (Oct. 10) on voter apathy. We don't think that it makes much difference whether Ford, Carter, or McCarthy wins this election. Mr. Lasser remarks that apathy exists despite the fact that "the choice in 1976 is a clear one; the Republicans and the Democrats differ markedly in basic philosophy of government." This seems somewhat absurd. Carter is labeled a "liberal," Ford a "conservative" — yet both have pretty much the same outlook. Both believe in the virtues of capitalism under government regulation, both have strong ties to big business, and both accept the present economic structure as given. Their differences in foreign policy are somewhat larger — they advocate different ways of keeping the rest of the world in step with US interests. Ford favors small dictatorships and CIA interference while Carter advocates "building bridges" to the Third World, and pacifying them with occasional economic concessions. Each is battling the other in an effort to do the most saberrattling and in keeping America Number One. Neither will do anything about the exploitation of the Third World by the multinational corporations.

The differences between the two candidates are ones of degree rather than of fundamental philosophy. Ford advocates helping poor people by giving private industry enough tax breaks so that they'll [sic] employ them. Carter advocates government subsidies of wages so that private industry can hire people for a minimal

cost. Either way it won't change the fact that poor people are going to get lousy jobs at low wages — and in either case, the taxes going to subsidize those jobs will be paid by working and middle-class people under the existing income tax system; not the rich or the large corporations. Don't forget that the Democratic Party is full of big businesses too; they just don't wear button-down collars, and some of them are nominally union leaders. Both Carter and Ford believe in the present system; what they are essentially proposing are minor "corrections" in one direction or another.

This leaves as alternatives Eugene McCarthy and assorted minor candidates. Besides the fact that McCarthy doesn't seem to take the race that seriously, his philosophy isn't much different than Carter's. He advocates redistributing work so that there will be full employment at 30 hours a week — this doesn't change anything except to make all working and middle class people equally poor. No new jobs are created, the economy isn't developed or restructured, and there's no real major income distribution. He does have a legitimate point — that the present two party system doesn't allow much democracy. All six independent candidates have had to wage a hard struggle just to get on the ballot besides the Democrats and Republicans.

The only real differences in philosophy offered by any Presidential candidates in this campaign might be between the two or three candidates of the reac-

(Please turn to page 5)

# opinion cont.

## No choice for voters

(Continued from page 4)

tionary right on one hand and the two or three authoritarian socialist parties on the other hand — and if you look closely, there's not much difference between them either.

The fact that there don't seem to be any viable alternative choices for President doesn't say a lot for the virtues of American democracy. We think a lot of voters in this elections [sic] don't see any real differences — only the same positions and the same empty campaign charades. Like a lot of other people we've decided not to vote for anyone for President, as the only way to express our dissatisfaction with the system and the lack of choice it offers. This doesn't mean we're against elections — in this one there are a lot of really meaningful referendums [sic] on the ballot everywhere. But if, as seems likely, most of the voters in the country choose not to vote for President — or any major party candidates — we hope that it will give a lot of people the incentive to do just as Mr. Lasser noted at the end of his article — that is, "to critically examine the institutions and men that make up our government" — and look for something better.

Philip Moore '77  
Howie Shrobe G  
Bonnie Buratti G  
October 27, 1976

### William Lasser responds:

Whenever one talks of "basic philosophy of government" in the American context, one speaks, of course, in terms of degree, as is

correctly pointed out. For throughout our history we have been tied together by the political philosophy of Locke and Jefferson, by what Louis Hartz calls the American "liberal tradition." Both political parties are indeed based on the same "liberal" (in the European sense, not the American) beliefs. Even conservatives in America are liberals across the ocean.

Nevertheless, it is clear in my opinion that Carter is left of center, while Ford is at the right of American thought. Your comments are unfortunately typical; perhaps there is now a need to expand our philosophical horizons to one side or the other. But attitudes such as those in this letter simply were not prevalent in the American past — no socialist or other extreme movement has ever succeeded in the United States. I regret the misunderstanding in the meaning of "basic philosophy." — W.L.

(Note: William Lasser's piece was a column (which expresses the author's personal views), rather than an editorial (which expresses the views of The Tech's Board).)

## Campaign '76: no shine

(Continued from page 4)

This election will be well worth watching, especially if it is so close that CBS News, with its computers and "sample precincts," can not tell us who has won until — believe it or not — almost everybody has voted. Political groupies will get very little

To the Editor:

In the Friday, Oct. 29 issue of *The Tech* there appeared an article "supplied by the Committee to Protect Jobs and the Use of Convenience Containers." Since the preceding article, written by their opponents, used only facts, I felt that it was highly unfair that the "Committee" was not so hindered.

The article is composed of distorted facts, halftruths, and a few outright lies. As a resident of Oregon I have personally witnessed the many beneficial effects that a similar bill has brought about. Among these, in my county, is an 85% reduction in litter over the space of three years (that is how long it took to clean up from the pre-bottle-bill era).

Starting with distortion, the article at one point states the beverage industry provides about one item in ten thousand in non-returnable packaging; actually, they provide one type of item in ten thousand, and they provide two billion of these a year. In fact, later in the article they state that the elimination of cans would place "the continued existence of several operating solid waste

sleep tonight, waiting to see what the absentee votes do to the California total, or when the obvious loser will finally concede the election to his rival and go home.

Place your bet — vote today, then sit back and watch the end of the race. A prediction? Why not. Carter by a nose.

recovery plants in jeopardy," a statement that disagrees with position that "convenience" containers play a small role in the overall litter situation. Another distortion (including a lie): "In Vermont... there was 49 per cent decrease in litter throughout the state, but this was at a cost to Vermonters of \$5 million." The lie is that, quoting a study conducted by the US Environmental Protection Agency, the actual decrease in litter was 67%, i.e., 2/3. The distortion is that the \$5 million came from unclaimed deposits, that is, cans that people had bought but had not returned, cans that were littered with, thrown away, or buried in the back yard. At 5¢ per can, this was one hundred million cans that had to be picked up by government litter campaigns.

An extremely blatant and obnoxious lie is "in Oregon, the litter problem did not decrease appreciably after the passage of bottle bill." Quoting from the Thursday, Oct. 21, 1976 issue of the *Hood River News*, "When Oregon's Stop Litter and Vandalism (SOLV) organization started several years ago, they gathered 14 dump truck loads of litter from roadsides. ... Last year they gathered only two dump truck loads of litter." State-wide, over a period of two years, litter decreased 75%. In contrast to the "Committee" this is thought by many residents of Oregon to be an appreciable amount.

But the worst of all their half-truths, their most effective scare tactic and lie, is the claim that there will be loss of 1400 jobs.

This is very true, but there will be 1700 to 1900 new ones. Quoting last Thursday's issue of the *Boston Globe*, Massachusetts Environmental Secretary Evelyn Murphy said that she "has repeatedly asked to see data detailing the claims that jobs will be lost if Question 6 passes. She said as far as she can determine no analysis has been conducted by the opponents of Question 6." Later in the same article, commenting on both jobs and price effects:

"In fact there have been two studies conducted, which calculate that jobs will increase with a returnable bottle and can system. In addition, the studies show there will be significant consumer savings under the bottle bill. ...

"The Federal Reserve Study, released here last March, details the benefits of the bottle bill, including more jobs — not fewer jobs. The Federal Reserve figures also showed that consumer prices declined in Oregon and Vermont after those states eliminated throwaways."

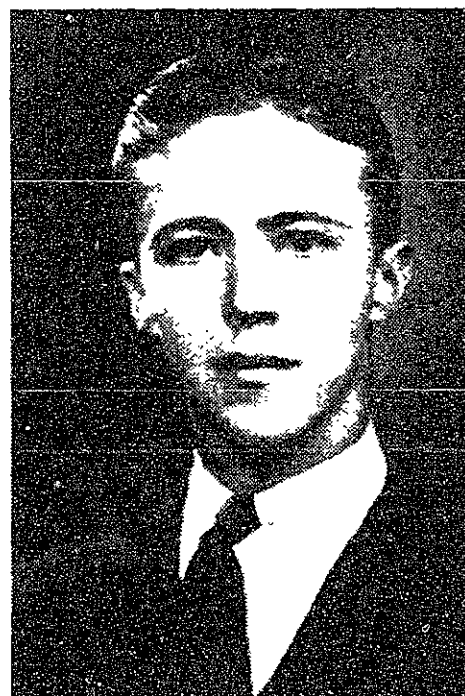
Why then does Labor oppose the bill? Murphy thinks it is in support of protesting steel workers, who oppose the bill nationally. She feels that they are being given "a lot of bad information and scare tactics" while not actually having strong opposition themselves to Question 6. It is my opinion, however, that union leaders prefer 1,400 dues-paying union members over 1800 newly-employed workers for something less than benevolent reasons.

Stuart Picking '79  
November 1, 1976

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# New high school program starting

By Glenn Brownstein

"Exploration," a college-student-staffed summer program designed to give high school students exposure to university-related and pre-professional fields of study, will begin operation this July.

Similar to MIT's successful

High School Studies Program conducted during the school year, Exploration will be run primarily by MIT students, faculty, and staff, but not be officially affiliated with the Institute.

As presently designed, the program will bring 180 students to a university campus four days a

week for four weeks to participate in workshops, seminars, and field trips related more to college curricula than to traditional high school studies. Two sessions will be held, one each in July and August.

According to Exploration's president, Institute Secretary for Charitable Trusts Arnold Singal '63, mailings are being distributed to students, faculty, and staff at five Boston area colleges (MIT, Harvard, Wellesley, Tufts, Brandeis) in an attempt to find "extraordinary potential teachers" from their student bodies. Teachers will be paid approximately \$1200 over the course of the summer for participation in the program. Singal added that Exploration must complete its search for appropriate instructors by Christmas so that it can start preparing its schedule.

Although Singal noted that the program did not have a home yet for this summer, he said that discussions were currently underway with MIT, Brandeis, and Tufts and that "it's definite" that Exploration will be run at one of the three campuses.

Brian Hughes '77, program director, explained Exploration's current status. "Right now we're trying to sell the program to MIT students as a summer job opportunity. Hopefully we'll get some response. After Christmas, we'll be scheduling our activities and tracking down through interviews the high school students we want."

Hughes said that he is in the process of developing a market-

ing program that will sell Exploration to high school students and parents. Part of the program's attractiveness, Singal feels, is due to Exploration's intended low tuition (\$50 to \$60 per week) and its commitment to take students from all economic backgrounds, providing scholarships for needy participants.

"We're not really affiliated with MIT, so we have some flexibility as to how we want to run the program," Singal explained. Possibilities under discussion include a tie-in with East Boston Technical School — MIT's "magnet" school under the Boston school reorganization program — or with Work in Technology and Science (WITS), a program designed to interest female high schoolers in technological and scientific fields.

## notes

\* André Wegener Sleeswyk, Professor of Applied Physics at the University of Groningen, the Netherlands, will present a Technology Studies Seminar "On Reconstructing Ancient Chinese Mechanical Marvels," Thursday, Nov. 4 at 4pm in 20D-205. Sleeswyk has recently been applying engineering principles to historical records of remarkable mechanical devices built in the imperial courts of ancient China in order to reconstruct their designs.

\* Student discounts on tickets to the Boston Ballet's November 11, 12, 13, and 14 performances are now on sale at TCA, Room W20-450. College ID entitles you to a \$3 savings on \$12.50 and \$10.50 tickets, and a savings of \$2.50 on \$7 tickets.

\* A five-day Stop Smoking Program will be offered by the Medical Department to students, staff, employees and spouses on Nov. 15, 16, 17, 18, and 19. It will be held from 1pm to 2pm in the Vannevar Bush Room on the first floor of Building 10 except on Thursday, Nov. 18 when it will be held in Room W20-407. The cost is \$5. The program, a combination of education and practical directions for withdrawing from smoking, will be conducted by Rev. Walter Kloss of the New England Memorial Hospital, a founder of the five-day program which is conducted throughout the country.

\* Beginning with the Fall term, 1977, the CEEU, Brussels, will award a substantial number of cost-of-living grants to American and Canadian juniors, seniors and graduates who are accepted for study in Paris, London, or Madrid through the agency of Academic Year Abroad, Inc. Applicants must enroll for the full university year, and for France and Spain give evidence of some competence in French or Spanish; applicants for England must have at least a B+ average. Deadline for completed applications is Feb. 15, 1977. For further details and application forms, write: CEEU, P.O. Box 50, New Paltz, N.Y. 12561.

## SCIENCE NEWS

Flash!!!

### PHYSICS TODAY

can not adequately explain three of our present technologies; a radar trap, a laser, and the ISR (Intersecting Storage Rings at CERN).

The ISR has two 0.99c (the speed of light) opposed beams. Do these particles pass each other where they intersect at 1.98c or at 0.999c? Is a simple three-body problem too much for relativity to handle?

A car closes at 50mph on a 1cm radar trap. The trap gets an echo back 4,500cps higher than it transmits, how, unless we add twice the car's speed to c?

Light makes a very poor constant, even though only a tiny slit in the electromagnetic spectrum, it has over 320 trillion frequencies. A laser emits (mc) monochromatic light of one frequency which is coherent.

Einstein was fond of thought experiments, so imagine a powerful green mc laser mounted on the starship Enterprise. The laser is always aimed at Earth. If the Enterprise opens at 0.6c we see the green laser as red, but if the Enterprise closes at 0.6c we see violet. How? Although light can be a constant to the source and all observers, mc is a constant only to the source. Mass, mc, electric, magnetic, and gravitational forces can come to an observer at any speed.

The Doppler-changed frequencies are not just apparent — they are very real, and a laser increases the accuracy of relativity theories by a factor of 320 trillion. We should stop spreading darkness in science with light as the science student of today invests too much time and money learning these old theories. — JW Ecklin

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Dr. David Falcone will be on campus November 3rd to discuss Duke University's M.H.A. program. Consult Ms. Jane Weisberg at the Preprofessional Office for details.

## THE BEST OF THE BURGUNDIES



Hugh Johnson, writing for Gourmet Magazine:

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E. Frank Henriques, The Signet Encyclopedia of Wine:

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# sports



LCA's Chris Perley '77 dives in vain for senior quarterback John Cavolowsky's pass in SAE's 14-0 victory in the IM A-league football championship game Sunday at the Rugby Field.

## Roundup

# SAE retains IM football crown

By Tom Curtis  
and Craig Walloch

(Craig Walloch '78 is the assistant IM football manager.)

Last Sunday SAE successfully defended its A-league IM football championship by defeating LCA 14-0. Played on a muddy field, the game was closely contested. LCA controlled the ball most of the game, but costly penalties and a

strong SAE goalline defense prevented any scoring by LCA.

The first score occurred in the first quarter when SAE's Stu McKinnon '78 caught a twenty-yard sideline pass, faked out one defender, and sprinted forty yards for the touchdown.

The second and third quarters were dominated by LCA, which drove deep into SAE territory but

failed to score despite a fine performance by receiver Paul Thompson '79. SAE was pulled out of trouble more than once by McKinnon's strong punting.

SAE iced the game late in the fourth quarter when quarterback Bruce Wrobel '79 broke loose on a run up the middle and outran the LCA defenders for a forty-yard scoring jaunt.

After winning only one of its first five matches, the women's varsity tennis team put together back-to-back victories last week over Pine Manor and Boston State College to finish the fall season at 3-4.

The Engineers, winning four singles and two doubles, easily disposed of Pine Manor 6-1 Tuesday for their first victory in nearly a month. On Wednesday, second singles Marcia Grabow '79 and first doubles Anne Averbach '77 and Stella Perone '78 led the team to a 5-2 thrashing of Boston State as each swept their opponents 6-0. Cathy Greaney '78, Sue Tiffany '80, and Chris Vogdes '78 also registered wins over Boston State.

## classified advertising

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## sports

## Aero/Astro, LCA capture IM A-league soccer titles

By Glenn Brownstein

Aero/Astro and Lambda Chi Alpha each survived two hard-fought playoff games last weekend to become IM A-league independent and living-group champions, respectively.

Aero/Astro, third place finisher last year and runner-up in 1974, swept to its first IM title ever, ending the regular season in first place and then dispatching the Chinos and Club Latino in the playoffs.

LCA had to play two overtimes to defeat previously undefeated Phi Gamma Delta (FIJI) in a hotly-contested semi-final protested unsuccessfully by the losers. The Lambchops had an easier time (but not by much) against Delta Tau Delta in Sunday's final, gaining a 4-2 victory after spotting the Deltas a 1-0 lead.

After Aero/Astro had dominated the Chinos (Chinese Students Club), 4-2, in one independent semi-final, Club Latino scored an early goal and had it stand up in a 1-0, protest-shortened victory over the defending champion Africans. With eight minutes remaining, the Africans pulled their team off the field after a dispute that resulted in the ejection of their goalie and captain.

Aero/Astro then routed Club Latino, 4-1, on Sunday, scoring three goals in the match's first ten minutes to wrap up the championship.

LCA's Mark Abkowitz G scored the clincher midway through the second overtime to

give the Lambchops a 3-2 win over FIJI. Although FIJI protested the contest over the ejection of its captain in the first overtime for unsportsmanlike conduct, claiming that it was not allowed to substitute for him in the remaining minutes of the game — something clearly allowed in the rulebook — the action was disallowed on the ground that FIJI misunderstood the rule originally and that the action not to substitute was its own.

In Saturday's other living-group semi-final, Baker battled DTD down to the wire before succumbing, 2-1, on a goal by Arnie Aigen '78 at 19:28 of overtime. The contest, which started late due to the length of previous games, ended in near-darkness.

Over 50 teams and 700 players participated in this year's soccer program, a testament to the growing popularity of the sport in this country.

## sporting notices

There will be an IM basketball referees' clinic tomorrow at 7:30pm in room 4-163. Anyone interested in becoming a paid referee should attend this clinic.

\* \* \* \*

There will be a WAC meeting on Thursday, Nov. 4 at 3pm in seminar room A, McCormick Hall. The meeting is open to the public.



Six intermediate eights break off the starting line in one of Saturday's Class Day heats on the Charles.

## Class Day attracts 80 crews

By Tom Curtis

Saturday on the Charles, eighty boats and over five hundred oarsmen competed in the 1976 edition of MIT's annual Class Day. From the totally uncoordinated effort of an SAE crew in the first heat to the precision timing of the DU "A" crew in the senior eights championship race, living groups exhibited their varying degrees of rowing expertise with universal enthusiasm.

Judging from the number of boats entered, Baker House, with eleven crews racing, was the most enthusiastic group. DU led the fraternities with seven entries, six of which made finals races.

With their large numbers of entries, Baker and DU dominated the preliminary heats of the junior eights, each placing two boats in the championship race. However, the title was captured by the ZBT crew of Joel Lederman '77, Jon Herland '77, Rich Brudnick '78, Mike Leaf '79, Dave Whitlock '77, Al Wadsworth '79, Mike Yamamoto '79, George Feliz '79, and coxswain George Orlov G.

While most entries were from regular living groups, there were also some independent entries. One of these, a crew composed of graduate student Jim Gorman '75, women's crew coach John Miller '74, Ingrid Klass '76, and Wendy Irving '77 with coxswain Mimi Kellogg secured the mixed fours title for the second year in a row. The quarter outdistanced two crews from DU and a PDT entry in the championship race.

Having finished second in the Head of the Charles Regatta, a crew from 416 Marlboro St. went after the Class Day senior fours championship. Despite the handicap of having 230-pound varsity crew coach Peter A. Holland as coxswain, 416's crew of Mark Pickrell '76, Will Sawyer '78, Craig Christensen '76, and Peter Beaman G roared past PDT, PKS, and LCA to claim the title.

The closest race of the day was the intermediate eights final in which three boats finished within one second of each other. Baker, defending champion, barely nosed out East Campus-Senior House and Theta Chi to take the title. After the race, Baker's coxswain Richardo Sitchin '80 was thrown in the Charles by elated

oarsmen Paul Malchodi '78, George Florentine '80, Ted Pounds '79, Phil Fiore '80, Adel Heiba '79, Rich Korf '77, Alex Edsall '80, and Pete Lemme '80.

In the day's climactic event, the prestigious senior eights race, defending champion DU was challenged by SAE, PBE, Baker, NROTC, and a crew of varsity coaches. The DU "A" crew of Al Heureux '78, George Hays '77, Corey Chaplin '79, Dave Lee '69, Bob Granetz '77, Carrick Davidson '78, Mitch Seavey '77, and Doug Johnston '76 coxed by Tony Foti '77 successful retained the championship by a five second margin over SAE.



Members of the victorious DU senior eights crew toss cox Tony Foti '77 into the Charles.

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